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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/601,364	06/23/2003	Mark Barrow	8521-000014 1247	
Ralph A. Dowell of DOWELL & DOWELL P.C. 2111 Eisenhower Ave Suite 406 Alexandria, VA 22314			EXAMINER ' NGUYEN, CAM N	
			ART UNIT	PAPER NUMBER
			1754	, ,
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MON	THS	01/25/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/601,364	BARROW ET AL.				
Office Action Summary	Examiner	Art Unit				
	Cam N. Nguyen	1754				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 11/13	1)⊠ Responsive to communication(s) filed on 11/13/06 (an election).					
	action is non-final.					
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-41 is/are pending in the application.						
4a) Of the above claim(s) <u>21-41</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-20</u> is/are rejected.						
7) Claim(s) is/are objected to.	·	•				
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	•					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
_						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Praftsperson's Patent Praying Review (PTO 948)	1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) D Notice of Informal Page 1					
Paper No(s)/Mail Date <u>11/09/04 & 12/16/03</u> . 6) Other:						

DETAILED ACTION

Response to Election/Restrictions.

- 1. Applicant's election <u>without traverse</u> of Group I, claims 1-20, in the reply filed on <u>November 13, 2006</u> is acknowledged.
- 2. Claims 21-41 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention(s), there being no allowable generic or linking claim.

 Election was made <u>without traverse</u> in the reply filed on <u>November 13, 2006</u>.

Claim Objections

- 3. Claims 2-5 are objected to because of the following informalities:
- A. In claims 2-5, line 1, "The composite sol gel solution" should be changed to --The composite sol gel formulation-- to be consistent with the language of other claims.
- B. In claim 13, "sold gel" should be changed to --sol gel--.Appropriate correction is required.

Claim Rejections - 35 USC § 112 (Second Paragraph)

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 1-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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- A. Claim 1 recites the limitation "said coating layer" in line 5. There is insufficient antecedent basis for this limitation in the claim.
- B. Claim 17 recites the limitation "said ceramic coating" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102(b)/103

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1-20 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Barrow et al., "hereinafter referred to as Barrow", (US Pat. 5,585,136).

Barrow discloses the claimed composite sol gel formulation, wherein the selected ceramic powders, having particle diameter of from 0.1 microns to 10 microns in size, are added at the loadings of 5 - 90% by weight to the organo-metallic solutions prepared from organic metal precursors by a sol gel process (see col. 3, ln 13- col. 4, ln 7). The ceramic powders may be selected from a wide range of materials including alumina, silica, titania, zirconia, silicon

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carbide, titanium carbide, and PZT (see col. 4, ln 7-9 & also Table 1). The films of greater than 5 um and up to at least 200 um in thickness can be applied by spin coating multiple layers (see col. 4, ln 42-44).

Product-by-Process limitations in the claims have been noted. While the composite sol gel of the reference might not be made by the same process, the composite sol gel disclosed is the same as being claimed. It has been held that the patentability of the product and its method of production are separately determined. Thus, even though the process limitations in the claims are not disregarded, they have no bearing on the patentability of the claims product per se. See *In re Thorpe*, 227 USPQ 964 (Fed. Cir. 1985); *In re Brown*, 173 USPQ 688, 688 (CCPA 1977); *In re Fessman*, 180 USPQ 324, 326 (CCPA 1977). See also *MPEP 2113*.

There is no patentable distinction seen between the claimed composite gel formulation and that disclosed by Barrow. Thus, the claims are anticipated by the teaching of reference.

Citations

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. All references are cited for related art. See PTO-892 Form prepared attached.

Conclusion

9. Claims 1-41 are pending. Claims 1-20 are rejected. Claims 21-41 are withdrawn due to nonelected (distinct) invention(s). No claims are allowed.

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10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Primary Examiner Cam N Nguyen, whose telephone number is 571-272-1357. The examiner can normally be reached on M-F, 9:00 AM - 6:30 PM, at alternative work site.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman, can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-272-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Cam N. Nguyen/

Nguyen/cnn

Primary Examiner

January 22, 2007

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